

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00629_3 ~ C1216XT-20LXXK-MDEX-TCY-GLXXMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00629_3_M-20L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 9/20/2017
 [UPDATE] 3/9/2018
 [LUMCAT] C1216XT-20L-xxK-MD-EX-TCY-GL
 [LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder
 [OTHER] Internal Reflector, Medium Beam
 [OTHER] Clear Glass Lens, Flush with Lower Trim
 [OTHER] 21.1 Degree Beam Angle
 [OTHER] Aimed at 0 Degrees
 [LAMPCAT] N/A, 19mm LES
 [LAMP] N/A, 83 CRI
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] LEDXT lumen output is the same for all available CCT's
 [OTHER] This report prepared by Spectrum Lighting, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1886
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.40
Spacing Criterion (90-270)	0.38
Spacing Criterion (Diagonal)	0.38
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_3 ~ C1216XT-20LXXK-MDEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17506	19057	17572
55	3231	3217	2885
65	2364	2081	2057
75	3152	3550	3208
85	2821	3242	3133

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	6763.085	6763.085	6763.085	6763.085	6763.085	6763.085	6763.085	6763.085	6763.085	6763.085
5	6031.680	6176.967	6078.854	6118.680	5936.166	5770.889	5758.823	5501.782	5538.120	5336.803
10	3883.790	4096.966	3944.873	4012.518	3746.130	3532.584	3521.519	3222.746	3268.529	3068.971
15	1882.161	2035.812	1933.402	1982.626	1802.274	1680.474	1669.524	1503.141	1539.376	1434.052
20	931.427	994.632	957.196	983.034	911.826	876.471	872.701	823.259	836.923	806.947
25	700.878	713.144	703.918	707.303	691.649	680.495	681.198	672.676	671.888	668.403
30	642.517	647.326	640.436	639.171	633.792	628.378	628.089	623.667	624.221	622.010
35	591.371	602.954	595.678	599.126	585.549	578.687	573.741	553.510	559.923	537.555
40	421.430	452.401	440.619	451.401	421.673	392.406	385.991	345.215	343.142	310.393
45	176.625	196.347	192.270	193.188	177.292	154.398	152.168	130.453	128.580	113.028
50	53.559	61.386	57.486	60.403	49.804	49.342	49.764	42.742	46.817	41.997
55	26.445	26.367	26.324	26.495	23.609	26.755	26.273	23.469	26.279	22.640
60	16.003	18.332	16.146	17.296	17.505	20.859	20.314	19.818	20.498	20.711
65	14.257	13.519	12.551	13.269	12.403	18.289	18.992	19.274	18.046	18.186
70	13.117	11.254	11.933	12.092	12.678	18.062	20.827	20.790	18.534	20.051
75	11.639	11.189	13.111	12.836	11.846	18.948	20.834	20.700	20.628	21.956
80	8.949	10.829	10.170	10.503	10.679	18.760	18.798	19.226	21.746	19.913
85	3.508	4.288	4.032	3.970	3.896	11.849	13.533	11.485	12.009	12.755
90	1.111	0.393	1.307	0.340	1.515	6.593	2.752	8.525	2.945	7.536
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	6763.085	6763.085	6763.085	6763.085	6763.085	6763.085	6763.085
5	5447.024	5332.007	5512.289	5742.182	5775.853	6036.203	6031.680
10	3198.930	3082.031	3281.195	3529.951	3556.502	3897.858	3883.790
15	1508.651	1440.365	1540.772	1673.531	1683.077	1888.992	1882.161
20	830.270	805.653	839.844	873.096	871.384	936.282	931.427
25	672.393	667.044	677.431	688.546	688.447	701.227	700.878
30	623.815	621.417	629.856	637.064	639.180	644.726	642.517
35	548.904	539.702	571.078	579.647	579.666	599.727	591.371
40	325.643	317.307	345.771	377.252	383.358	426.874	421.430
45	120.715	114.097	118.246	143.633	147.958	173.848	176.625

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50	43.443	41.793	42.160	44.978	47.012	56.397	53.559
55	24.096	23.754	24.883	25.180	24.885	26.017	26.445
60	17.728	18.502	20.452	16.283	16.574	18.128	16.003
65	20.024	17.096	18.640	13.167	13.997	15.059	14.257
70	18.378	19.447	18.238	11.812	12.406	11.779	13.117
75	19.439	18.465	20.230	11.978	12.062	13.411	11.639
80	16.757	17.184	18.986	8.688	11.503	10.471	8.949
85	13.359	9.728	11.402	3.933	3.466	4.436	3.508
90	2.761	8.784	5.573	0.333	1.265	0.690	1.111
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1007.23	N.A.	53.40
0-30	1339.00	N.A.	71.00
0-40	1676.77	N.A.	88.90
0-60	1842.98	N.A.	97.70
0-80	1875.98	N.A.	99.50
0-90	1885.19	N.A.	100.00
10-90	1402.53	N.A.	74.40
20-40	669.54	N.A.	35.50
20-50	809.45	N.A.	42.90
40-70	182.64	N.A.	9.70
60-80	33.01	N.A.	1.80
70-80	16.58	N.A.	0.90
80-90	9.21	N.A.	0.50
90-110	0.90	N.A.	0.00
90-120	0.90	N.A.	0.00
90-130	0.90	N.A.	0.00
90-150	0.90	N.A.	0.00
90-180	0.90	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1886.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	482.66
10-20	524.57
20-30	331.77
30-40	337.77
40-50	139.91
50-60	26.30
60-70	16.43
70-80	16.58
80-90	9.21
90-100	0.90
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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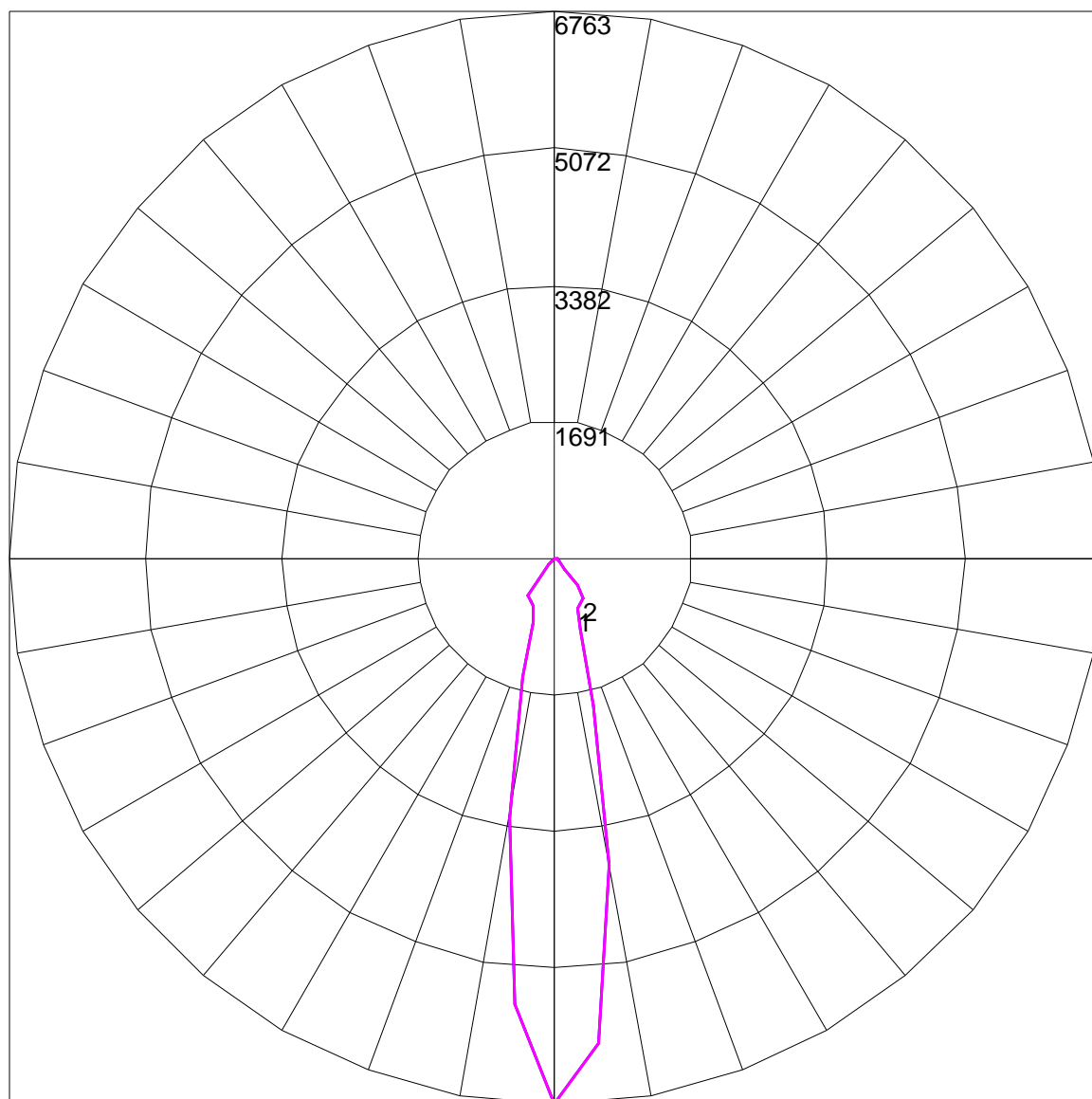
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	104	100	97	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83
4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78
5	95	87	81	77	93	86	81	77	84	80	76	83	79	76	81	78	75	74
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70
7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67
8	83	75	69	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	69	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58

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POLAR GRAPH



Maximum Candela = 6763.085 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)